

### Abstract

An SC-type optical PAD connector (4) has a ferrule (6) for accommodating a certain length of an optical fiber (5) which comprises a core containing a light absorbing dopant such as Co or V for adjusting the intensity of the received signal within a permissible range and a photosensitive dopant such as Ge or Sn for selectively reflecting the input light and provided with a chirped grating, which is a periodic modulation structure for the refractive index, in the longitudinally middle portion and a cladding formed outside of the core and having a refractive index smaller than that of the core. The certain length of the optical fiber (5) is protected by the ferrule (6) and fitted in a housing (7) and the connector (4) has one end formed into a male connection terminal and the other end formed into a female connection terminal.